Sample Questions:

- 1)If 1 pound of sugar equals 4 cups, how many pounds of sugar are in 1 cup?
- 2)If 1 kilogram equals 2.2 pounds, how many kilograms does a 66 pound child weigh?
- 3)If 1 kilogram equals 2.2 pounds, how many pounds are in 1.5 kilograms?
- 4)If 1 centimeter equals 3/8 inch, how many centimeters are in 2 ½ inches?
- 5)A typical dose of Children's Tylenol contains 160 milligrams of Tylenol per teaspoonful. How many teaspoons of Tylenol would you need to give to give 40 milligrams?
- 6)One large apple contains 80 calories. How many calories do you consume if you eat ¾ of an apple?
- 7) How many seconds are there in 9 1/3 minutes?
- 8)A bottle of Children's Tylenon contains 20 teaspoons of liquid. If each dose for a 2-year old child is ½ teaspoon, how many doses are available in this bottle?
- 9)If 1 pound of apples costs \$0.69, how much do 3 ½ pounds cost?
- 10)If 1 centimeter equals 3/8 inch, how many centimeters are there in 3 inches?
 - 11)If 1 kilogram (kg) equals 2.2 pounds (lbs), how many kg is 66 pounds?
 - 12)A child who weighs 55 lbs is to receive 0.05 mg of a drug per kg of body weight. How much of the drug should the child receive for each dose?
 - 13)An infant is taking a "ready-to-feed" formula. The formula comes in quart containers. If the infant usually takes 4 ounces of formula every 3 hours during the day and night, how many quarts of formula should the mother buy for a 3-day supply? (32 ounces in 1.0 quart)

$$C = (F - 32)/1.8$$
 $F = 1.8 C + 32$

- 14)Zero degrees F equals how many degrees C?
- 15)One hundred degrees C equals how many degrees F?
- 16)212 F equals how many degrees C?

Sample Questions Continued:

- 17) 98.6 F equals how many degrees C?
- 18) 32 C equals how many degrees F?
- 19)Your doctor prescribes Ampicillin to you at 0.5 grams per day. The ampicillin is available in 250 mg per capsule. How many capsules, or part of a capsule, should you take a day?
- 20) Your doctor orders a penicillin lotion to be given at 100 mg. The label says that the lotion is 125 mg per 5 ml (milliliters). How much should you apply?
- 21)Your doctor orders potassium chloride at 40 mEq (milliequivalents) to be given. The label on the package says it comes in a solution of 20 mEq per 15 ml. How much should you give?
- 22)You are told to take 0.6 grams of Motrin. The pills come in 300 mg tablets. How many should you take?
- 23) You need to administer 20 mg per kg of a drug to a 20 pound child. The pills are 60 mg each. How many pills do you give her?
- Cardiac Output (CO) equals Heart-Rate (HR) multiplied by Stroke-Volume (SV).
- 24) If your heart is beating at 72 beats per minute and your heart is ejecting 70 ml of blood per beat, what is your cardiac output?
- 25) What is a person's stroke volume is their cardiac output is 6.0 liters per minute and their heart is beating at 60 beats per minute?
- The Mean Arterial Pressure (which is an indication of the average blood pressure) is MAP =[2(diastolic blood pressure)+(systolic blood pressure)]/3
- 26)If your patient has a blood pressure of 120/80 (systolic/diastolic), what is her MAP?

The Pulse-Pressure is the difference between the systolic and diastolic blood pressures.

27) If you have a blood pressure of 120/80, what is your pulse pressure?